

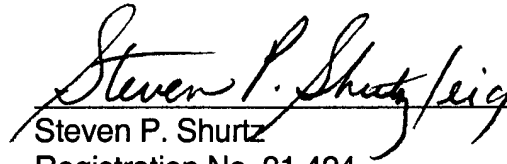
## REMARKS

The amendment does not involve new matter. Claims 1 and 57-60 have been amended to explicitly state that which was already included in the claims by the definition of "substantial encapsulation" on page 7, lines 25-29. The changes to the claims from the previous version to the rewritten version are shown in Appendix A, with added matter underlined.

Examiner Lam is thanked for the courtesy of the telephone interview with Applicant's attorney on June 6 and 7, 2002. During the interview Applicant's attorney raised the question of how the claims were being interpreted, and the basis for the obviousness-type double patenting rejection. The above amendments were proposed. The prior art of Fig. 1 was discussed. The thrust of the principal argument presented was that the term "substantially encapsulated" means more than that the body surrounds the stator, which is how the Examiner seemed to be interpreting the term. Also, the arguments as to why the obviousness-type double patenting rejection was improper as stated in the Amendment mailed October 3, 2001 were repeated. The Examiner agreed that the forgoing amendment would overcome the outstanding rejection over the prior art. Applicant's attorney also understood that the obviousness-type double patenting rejection would be withdrawn. However, the Examiner stated that the amendment would require further searching and consideration, and thus would not be entered after the final rejection.

In order to have the amendment entered, Applicant is filing a Request for Continued Examination concurrently herewith. Since all of the outstanding rejections have been overcome, an early notice of allowance is respectfully requested. If the Examiner wishes to discuss any other details before mailing a notice of allowance, he is invited to telephone Applicant's attorney.

Respectfully submitted,

  
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## APPENDIX A

1. (Amended) A high speed spindle motor comprising:
  - a) a stator assembly comprising:
    - i) a stator having multiple conductors that create a plurality of magnetic fields when electrical current is conducted by the conductors; and
    - ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together;
  - b) a rotatable hub having a magnet connected thereto in operable proximity to the stator;
  - c) a shaft;
  - d) a bearing around the shaft; and
  - e) one of the shaft or bearing being fixed to the stator assembly and the other of the shaft or bearing being fixed to the rotatable hub.
57. (Amended) A high speed spindle motor comprising:
  - a) a stator substantially encapsulated in a thermoplastic body so as to rigidly fix the stator and body together, the thermoplastic body having a cylindrical hole therein;
  - b) a bearing press fit into the cylindrical hole;
  - c) a shaft rotatably supported by the bearing; and
  - d) a hub having a magnet connected thereto, the hub being fixed to the shaft.
58. (Amended) A motor comprising:
  - a) a stator assembly comprising:
    - i) a stator having at least one conductor and a plurality of magnetic fields when electrical current is conducted by the at least one conductor; and
    - ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together, the phase change material including ceramic particles;

- b) a magnet in operable proximity to the stator;
- c) a shaft having a rotational axis;
- d) a bearing allowing rotation about the rotational axis of the shaft;

and

- f) one of the shaft or bearing being fixed to the stator assembly.

59. (Amended) A motor comprising:

- a) a stator assembly comprising:
  - i) a stator having at least one conductor and a plurality of magnetic fields when electrical current is conducted by the at least one conductor; and
  - ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together, the phase change material having a coefficient of linear thermal expansion of less than  $2 \times 10^{-5}$  in/in/ $^{\circ}$ F throughout the range of 0-250 $^{\circ}$ F;

- b) a magnet in operable proximity to the stator;
- c) a shaft having a rotational axis;
- d) a bearing allowing rotation about the rotational axis of the shaft;

and

- f) one of the shaft or bearing being fixed to the stator assembly.

60. (Amended) A motor comprising:

- a) a stator assembly comprising:
  - i) a stator having at least one conductor and a plurality of magnetic fields when electrical current is conducted by the at least one conductor; and
  - ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together, the phase change material having a thermal conductivity of at least 0.7 watts/meter $^{\circ}$ K at 23 $^{\circ}$ C;

- b) a magnet in operable proximity to the stator;
- c) a shaft having a rotational axis;

and

- d) a bearing allowing rotation about the rotational axis of the shaft;
- e) one of the shaft or bearing being fixed to the stator assembly.